

## Adjustable piston pump

### Abstract

An adjustable piston pump for displacement and extraction of remnant from soft sand and or soft soil includes a pump casing cylinder that is capped at one end and opens at the other end. It includes a handle fixed to the pump casing cylinder, a shaft rod, a shaft rod handle and a piston that includes a flexible ball. The shaft rod is retractable through the center of the capped end of the pump casing cylinder and is connected to a shaft rod handle. The portion of the shaft rod that always remains embodied in the pump casing cylinder is connected to a piston. The flexible ball mounted inside the piston construction is compressed or decompressed by the clockwise or counter clockwise rotation of the handle located at the other end of the shaft rod. Pressure is controlled in this manner. Upward and downward strokes of the piston initiate displacement and extraction of remnant.